

04/05/78

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DISTRIBUTION FOR INCOMING MATERIAL

50-269/280/287

TO: OREILLY J P  
NRC

ORG: PARKER W O  
DUKE PWR

DOC DATE: 03/23/78  
DATE RCVD: 03/23/78

OBJECT: LETTER NOTARIZED: NO  
SUBJECT:

COPIES RECEIVED  
LTR 1 ENCL 1

LICENSEE EVENT REPT (RD 50-269/78-003) ON 02/22/78 CONCERNING ATTEMPT TO  
START KEOWEE HYDRO UNIT 2, SOURCE OF AUXILIARY PWR FOR SUBJECT FACILITY,  
FAILED DUE TO AN INOPERABLE FIELD FLASHING BREAKER. W/ATT LER 78-003,  
78-029 & 78-001.

PLANT NAME: OCONEE - UNIT 1  
OCONEE - UNIT 2  
OCONEE - UNIT 3

REVIEWER INITIAL: XJM  
DISTRIBUTER INITIAL:

\*\*\*\*\* DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS \*\*\*\*\*

NOTES:  
L. M. CUNNINGHAM - ALL AMENDMENTS TO FSAR AND CHANGES TO TECH SPECS

INCIDENT REPORTS  
(DISTRIBUTION CODE A002)

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ACRS CAT B\*\*W/16 ENCL

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REGULATORY GUIDE 10.1

DISTRIBUTION: LTR 45 ENCL 45  
SIZE: 1P+2P+3P

CONTROL NBR: 780950031

\*\*\*\*\* THE END \*\*\*\*\*

004

DUKE POWER COMPANY

POWER BUILDING  
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242  
RECEIVED DISTRIBUTION SERVICES UNIT

March 23, 1978

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

1978 MAR 31 PM 1 06  
TELEPHONE: AREA 704  
373-4083

UNITED STATES  
DEPARTMENT OF ENERGY  
REGULATORY SERVICES  
DIVISION

Mr. James P. O'Reilly, Director  
U. S. Nuclear Regulatory Commission  
Suite 1217  
230 Peachtree Street, Northwest  
Atlanta, Georgia 30303

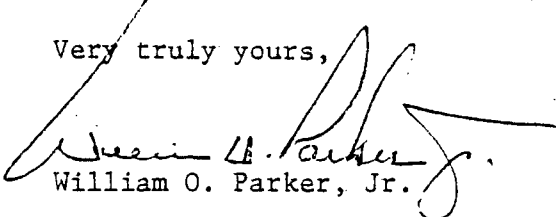
RE: Oconee Units 1, 2, and 3  
Docket No. 50-269, -270, and -287

Dear Mr. O'Reilly:

Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station Technical Specifications, please find attached Reportable Occurrence Report RO-269/78-3.

Also attached are revised Licensee Event Reports submitted on two similar occurrences reported in Reportable Occurrence Reports RO-269/78-29 and RO-269/78-1, originally transmitted by my letters of January 18, and February 3, 1978, respectively.

Very truly yours,

  
William O. Parker, Jr.

KRW/pt

Attachment

cc: Director, Office of Management Information  
and Program Control

REGULATORY DOCKET FILE COPY

780950031

A002  
S  
1/1

DUKE POWER COMPANY  
OCONEE UNIT 2

Report Number: RO-269/78-3

Report Date: March 23, 1978

Occurrence Date: February 22, 1978

Facility: Oconee Nuclear Station, Seneca, South Carolina

Identification of Occurrence: Keowee Hydro Unit 2, Field Flashing Breaker  
Inoperable

Conditions Prior to Occurrence: Unit 1 100% FP  
Unit 2 100% FP  
Unit 3 100% FP

Description of Occurrence:

At 1750, on February 22, 1978, when an attempt was made to start Keowee Hydro Unit 2, the unit's field flashing breaker failed to close. The unit was therefore inoperable, contrary to the requirements of Oconee Nuclear Station Technical Specification 3.7.1. The unit was started and successfully operated at 1752. The breaker and controls, wires and contacts within the breaker were inspected with no abnormalities discovered. The unit has successfully started on several subsequent occasions.

This type of incident has occurred on two previous occasions, which were reported in Reportable Occurrence Reports RO-269/77-29, and RO 269/78-1, transmitted by my letters of January 18, and February 3, 1978 respectively.

Apparent Cause of Occurrence:

The apparent cause of the incident was initially identified as a faulty relay within the field flashing breaker control system. The apparently faulty relay was replaced, along with another relay that had been arcing. After relay replacement, and during the investigation of this report, the breaker failed to operate again. Therefore, the exact cause of the breaker malfunction has not yet been determined. The breaker system is continuing to be observed to determine the cause of the incident.

Analysis of Occurrence:

The failure of the breaker to close caused Keowee Unit 2 to become temporarily inoperable. Two minutes after the initial unsuccessful attempt, the field flashing breaker successfully operated making Keowee Unit 2 fully operable. Throughout this period, the second Keowee Hydro unit was fully operable and available to supply emergency power to the station if required. The health and safety of the public were not endangered.

Corrective Action.

Initially an inspection of the breaker and its controls was made with no defective components discovered.

During the investigation of this report two relays in the field flashing breaker control circuit were replaced. An extensive investigation is continuing in this area of concern to correct the breaker control system faults.



NRC FORM 366  
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | S | C | N | E | E | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5  
7 8 9 14 15 25 28 30 37 CAT 58

CON'T  
01 | REPORT SOURCE | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 6 | 9 | 7 | 1 | 2 | 1 | 9 | 7 | 7 | 8 | 0 | 3 | 2 | 3 | 7 | 8 | 9  
7 8 50 51 58 59 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | During normal operation Keowee Hydro Unit 2 failed to start on initiation  
03 | from Oconee control room. Since Keowee 2 is a source of auxiliary power  
04 | for the Oconee station (Units 1, 2, and 3) this is reportable under  
05 | T. S. 6.6.2.1.b.(2). The unit started normally on second and subsequent  
06 | attempts.

07 |  
08 |

09 | SYSTEM CODE [E][E] (11) CAUSE CODE [X] (12) CAUSE SUBCODE [X] (13) COMPONENT CODE [Z][Z][Z][Z][Z][Z] (14) COMP. SUBCODE [Z] (15) VALVE SUBCODE [Z] (16)

17 | LER/RO REPORT NUMBER [7][7] (21) EVENT YEAR [7][7] (22) SEQUENTIAL REPORT NO. [0][2][9] (24) OCCURRENCE CODE [0][3] (28) REPORT TYPE [L] (30) REVISION NO. [1] (31)  
18 | ACTION TAKEN [X] (33) FUTURE ACTION [A] (34) EFFECT ON PLANT [Z] (35) SHUTDOWN METHOD [Z] (36) HOURS [0][0][0][0] (37) ATTACHMENT SUBMITTED [Y] (41) NPRO-4 FORM SUB. [Y] (42) PRIME COMP. SUPPLIER [L] (43) COMPONENT MANUFACTURER [Z][9][9][9] (44)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The Field Flashing Breaker on the generator failed to close on first attempt.  
11 | The breaker was verified as operable by subsequent operation and visual  
12 | examination. Normal inspection and servicing resulted in no further correc-  
13 | tive action. Extensive investigation is continuing as of March 23, 1978.

14 |  
15 | FACILITY STATUS [E] (28) % POWER [1][0][0] (29) OTHER STATUS [NA] (30) METHOD OF DISCOVERY [A] (31) DISCOVERY DESCRIPTION [Operator Observation] (32)

16 | ACTIVITY CONTENT [Z] (33) AMOUNT OF ACTIVITY [NA] (35) LOCATION OF RELEASE [NA] (36)

17 | PERSONNEL EXPOSURES NUMBER [0][0][0] (37) TYPE [Z] (38) DESCRIPTION [NA] (39)

18 | PERSONNEL INJURIES NUMBER [0][0][0] (40) DESCRIPTION [NA] (41)

19 | LOSS OF OR DAMAGE TO FACILITY TYPE [Z] (42) DESCRIPTION [NA] (43)

20 | PUBLICITY ISSUED [N] (44) DESCRIPTION [NA] (45)

NAME OF PREPARER K. R. Wilson PHONE: (704) 373-8197

